

CURRICULUM VITAE



Name **YONG YOKE KEONG**
Position **Associate Professor Dr.**
Department **Human Anatomy**
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RESEACHGATE:

https://www.researchgate.net/profile/Felix_Yong_Yoke_Keong

Education

1. Doctor of Philosophy (Human Physiology), 2012, Universiti Putra Malaysia.
2. Bachelor Degree (Biomedical Science), 2007, Universiti Putra Malaysia.
3. Sijil Tinggi Persekolahan Malaysia (STPM), 2003, College Community Mertajam, Penang.
4. Sijil Pelajaran Malaysia (SPM), 2001, SMK. Dato Haji Hussei, Selama, Perak.

Areas of Interest

1. Cardiovascular Physiology & Vascular Biology
2. Cancer Biology
3. Natural Products & Drug Discovery Research
4. Noncommunicable diseases
5. Teaching & Learning

Professional Qualification/ Membership/ Affiliation

1. Lifetime member – Golden Key International Honour Society
2. Member – Persatuan Alumni UPM
3. Member – Persatuan Pegawai Akademik UPM
4. Member – Malaysian Society for Pharmacology and Physiology
5. Lifetime member – WG on Atherosclerosis & Vascular Biology
6. Lifetime member – WG on Cardiovascular Pharmacotherapy
7. Editorial board member – Journal of Biomedical Science & Technology
8. Editorial board member – Pharmacognosy Magazine
9. Editorial board member – Evidence-based Complementary and Alternative Medicine

Appointments (Inside and Outside UPM)

1. Head of Unit Physiology, Department of Human Anatomy, FPSK UPM. 2014 – 2020
2. Research Coordinator, Department of Human Anatomy, FPSK UPM. 2018 – present
3. Coordinator of Cell Culture Laboratory, Department of Human Anatomy, FPSK UPM. 2014 – present
4. Coordinator of Innovation, Faculty of Medicine and Health Sciences, UPM. 2021 - present
4. Module coordinator of Respiratory System, FPSK UPM. 2014 – 2019

Appointments (Inside and Outside UPM)		
Date	Designation	Remarks
2014	Member	Program research orientation
2015	Member	Program "Sketches of Medical Sciences / SMS"
2015	Editorial member	The International Anatomical and Biomedical Scientific Conference
2015	Project committee	Young Scientist Day, UPM
2015	Organizing committee	Malaysian Brain Bee Challenge 2015
2015	Organizing committee	3 rd Refresher Course on Physiology & Pharmacology Teaching
2015	Organizing committee	The International Anatomical and Biomedical Scientific Conference 2015
2016	Editorial member	30th Scientific Meeting of Malaysian Pharmacology and Physiology
2016	Organizing committee	Malaysian Brain Bee Challenge 2016
2016	Organizing committee	Exploring Human Anatomy & Physiology via rodent necropsy
2016	Project committee	Young Scientist Day, UPM
2016	Organizing committee	30th Scientific Meeting of Malaysian Pharmacology and Physiology
2016	Advisor	Pesta Tang Lung, FPSK, UPM
2017	Organizing committee	ELISA workshop
2017	Organizing committee	Young Scientist Day Charity Run 2017
2017	Organizing committee	Malaysian Brain Bee Challenge 2017
2017	Organizing committee	The International Anatomical and Biomedical Scientific Conference 2017
2017	Advisor	Pesta Tang Lung, FPSK, UPM
2018	Chairperson	2-days fundamental cell culture and MTT assay demonstration
2018	Organizing committee	Introduction on Multiplex and gene Quantitation Workshop
2018	Organizing committee	Hands-on ELISA workshop and data analysis – Siri I
2018	Organizing committee	Hands-on ELISA workshop and data analysis – Siri II
2018	Organizing committee	Hands-on ELISA workshop and data analysis – Siri III
2018	Organizing committee	Malaysian Brain Bee Challenge 2018
2018	Advisor	Pesta Tang Lung, FPSK, UPM
2019	Chairperson	2-days fundamental cell culture and MTT assay demonstration
2019	Organizing committee	Malaysian Brain Bee Challenge 2019

Publications

Journals (in 5 years)

1. Devasvaran, K., & **Yong, Y. K***. (2016). Anti-inflammatory and wound healing properties of Malaysia Tualang honey. *Current Science*, 47-51.

2. Liew, P. M., & **Yong, Y. K***. (2016). *Stachytarpheta jamaicensis* (L.) Vahl: from traditional usage to pharmacological evidence. *Evidence-Based Complementary and Alternative Medicine*, 2016.
3. Thiagarajan, S. K., Mahadi, I. H., Jamaluddin, N., **Yong Y. K.**, Liew, P. M., Mat Taib, C. N., Hussain, M. K., Perumal, K. V., Bahari, H. (2018). The protective effects of *Stachytarpheta jamaicensis* (L.) Vahl on LPS-induced hepatic and renal injury in ICR mice. *Malaysian Journal of Microscopy*, 14 (1),.
4. Ng, C. T., Fong, L. Y., Tan, J. J., Rajab, N. F., Abas, F., Shaari, K., ... & **Yong, Y. K***. (2018). Water extract of *Clinacanthus nutans* leaves exhibits in vitro, ex vivo and in vivo anti-angiogenic activities in endothelial cell via suppression of cell proliferation. *BMC complementary and alternative medicine*, 18(1), 210.
5. **Yong, Y. K.***, Somchit, M. N., & Ahmad, Z. (2018). Anti-inflammatory properties of *Bixa Orellana* leaves extract are associated with suppression of bradykinin-induced endothelial hyperpermeability. *Pharmacognosy Magazine*, 14(57), 352.
6. Ng, C. T., Fong, L. Y., **Yong, Y. K.**, Hakim, M. N., & Ahmad, Z. (2018). Interferon- γ induces biphasic changes in caldesmon localization as well as adherens junction organization and expression in HUVECs. *Cytokine*, 111, 541-550.
7. FIRDAUS, A., KHALID, J., & **Yong, Y. K.*** (2018). Malaysian Tualang Honey and Its Potential Anti-Cancer Properties: A Review. *Sains Malaysiana*, 47(11), 2705-2711.
8. Thiagarajan, S., Arapoc, D. J., Husna Shafie, N., **Keong, Y. Y.**, Bahari, H., Adam, Z., & Ei, T. (2019). *Momordica charantia* (Indian and Chinese Bitter Melon) Extracts Inducing Apoptosis in Human Lung Cancer Cell Line A549 via ROS-Mediated Mitochondria Injury. *Evidence-Based Complementary and Alternative Medicine*, 2019.
9. Fong, L. Y., Ng, C. T., **Yong, Y. K.**, Hakim, M. N., & Ahmad, Z. (2019). Asiatic acid stabilizes cytoskeletal proteins and prevents TNF- α -induced disorganization of cell-cell junctions in human aortic endothelial cells. *Vascular pharmacology*, 117, 15-26.
10. Leong, Y. Y., Ng, W. H., Umar Fuaad, M. Z., Ng, C. T., Ramasamy, R., Lim, V., **Yong, Y. K.** & Tan, J. J. (2019). Mesenchymal stem cells facilitate cardiac differentiation in Sox2-expressing cardiac C-kit cells in coculture. *Journal of cellular biochemistry*, 120(6), 9104-9116.
11. Ng, W. H., Fuaad, M. Z. U., Azmi, S. M., Leong, Y. Y., **Yong, Y. K.**, Ng, A. M. H., & Tan, J. J. (2019). Guided evaluation and standardisation of mesenchymal stem cell culture conditions to generate conditioned medium favourable to cardiac c-kit cell growth. *Cell and tissue research*, 375(2), 383-396.
12. Ng, W. H., Ramasamy, R., **Yong, Y. K.**, Ngalim, S. H., Lim, V., Shaharuddin, B., & Tan, J. J. (2019). Extracellular matrix from decellularized mesenchymal stem cells improves cardiac gene expressions and oxidative resistance in cardiac C-kit cells. *Regenerative therapy*, 11, 8-16.
13. Lim, C. P., Yam, M. F., Asmawi, M., Chin, V. K., Khairuddin, N. H., **Yong, Y. K.**, ... & Basir, R. (2019). Cytostatic and Antiproliferative Activities of F5 Fraction of *Crinum amabile* Leaf Chloroform Extract Showed Its Potential as Cancer Chemotherapeutic Agent. *Evidence-Based Complementary and Alternative Medicine*, 2019.
14. Raihan, J., Ahmad, U., **Yong, Y. K.**, Eshak, Z., Othman, F., & Ideris, A. (2019). Regression of solid breast tumours in mice by Newcastle disease virus is associated with production of apoptosis related-cytokines. *BMC cancer*, 19(1), 315.
15. Liew, P. M., & **Yong, Y. K***. (2019). Role of vascular permeability and its signaling cascade in inflammation. *Songklanakar Journal of Science & Technology*, 41(6).
16. Devasvaran, K., Tan, J. J., Ng, C. T., Fong, L. Y., & **Yong, Y. K.*** (2019). Malaysian Tualang Honey Inhibits Hydrogen Peroxide-Induced Endothelial Hyperpermeability. *Oxidative medicine and cellular longevity*, 2019.
17. Ng, W. H., **Yong, Y. K.**, Ramasamy, R., Ngalim, S. H., Lim, V., Shaharuddin, B., & Tan, J. J. (2019). Human Wharton's Jelly-Derived Mesenchymal Stem Cells Minimally Improve the Growth Kinetics and Cardiomyocyte Differentiation of Aged Murine Cardiac c-kit Cells in In Vitro without Rejuvenating Effect. *International journal of molecular sciences*, 20(22), 5519.
18. Mohd Narawi, M., Chiu, H. I., **Yong, Y. K.**, Mohamad Zain, N. N., Ramachandran, M. R., Tham, C. L., Samsurrijal, S. F., & Lim, V. (2020). Biocompatible nutmeg oil-loaded nanoemulsion as phyto-repellent. *Frontiers in Pharmacology*, 11, 214.
19. Kwaifa, I. K., Bahari, H., **Yong, Y. K.**, & Noor, S. M. (2020). Endothelial Dysfunction in Obesity-Induced



- Inflammation: Molecular Mechanisms and Clinical Implications. *Biomolecules*, 10(2), 291.
20. Binti Kamaruddin, N. A., Fong, L. Y., Tan, J. J., Abdullah, M. N. H., Singh Cheema, M., Bin Yakop, F., & **Yong, Y. K.*** (2020). Cytoprotective Role of Omentin Against Oxidative Stress-Induced Vascular Endothelial Cells Injury. *Molecules*, 25(11), 2534.
21. Badrulhisham, N. S. R., Ab Hamid, S. N. P., Ismail, M. A. H., **Yong, Y. K.**, Zakuan, N. M., Harith, H. H., ... & Nurdin, A. (2020). Harvested locations influence the total phenolic content, antioxidant levels, cytotoxic, and anti-inflammatory activities of stingless bee honey. *Journal of Asia-Pacific Entomology*, 23(4), 950-956.
22. Ismail, M. A. H., Badrulhisham, N. S. R., Lim, V., Nurdin, A., Harith, H. H., & **Yong, Y. K.** (2020). Comparison of antioxidant levels and anti-inflammatory activities of kelulut honey harvested at different month of intervals and its chemical compositions. *Pharmacognosy Magazine*, 16(70), 350.
23. Bakar, A., Hakim Abdullah, M. N., Lim, V., & **Yong, Y. K.** (2021). Essential Oils Derived from Momordica charantia Seeds Exhibited Antiulcer Activity against Hydrogen Chloride/Ethanol and Indomethacin. *Evidence-Based Complementary and Alternative Medicine*, 2021.
24. Chiu, H. I., Che Mood, C. N. A., Mohamad Zain, N. N., Ramachandran, M. R., Yahaya, N., Nik Mohamed Kamal, N. N. S., Tung, W.H., **Yong, Y.K.**, & Lim, V. (2021). Biogenic Silver Nanoparticles of Clinacanthus nutans as Antioxidant with Antimicrobial and Cytotoxic Effects. *Bioinorganic Chemistry and Applications*, 2021.

Conference Proceedings (in 5 years)

1. **Yong, Yoke Keong***, Jun Jie Tan, Kogilavane Devasvaran. "Tualang Honey inhibit oxidative stress-induced hypertension-related vascular dysfunction via regulating beta-catenin, actin cytoskeleton interaction and caveolin-1". *Journal of Hypertension*, 34: PS 10-18, 2016.
2. **Yong, Yoke Keong***, Ng, Chin Theng, Fong, Lai Yen, Rajab, Noor Fadhilah. "Anti-angiogenic effect of water extract from the Clinacanthus nutans leaves". *Cancer Science*, 109: 783, 2018.
3. Mardhiah Maslizan, **Yong Yoke Keong**, Muhammad Nazrul Hakim Abdullah. "Anti-inflammatory and antioxidant properties of Alternanthera sessilis Red". *Health and the Environment Journal*, 10, Suppl. 1: 14, 2019.
4. Nurul Syaza Nordin, **Yong Yoke Keong**, Muhammad Nazrul Hakim Abdullah. "Comparison of physicochemical, antioxidant and anti-inflammatory properties of acacia, kelulut and tualang honey". *Health and the Environment Journal*, 10, Suppl. 1: 19, 2019.
5. **Yoke Keong, Yong***, Kogilavane Devasvaran, Jun Jie Tan. "Malaysian Tualang Honey protects endothelial barrier integrity from insults by hydrogen peroxide". *The Journal of Physiological Sciences*, 69, Suppl.1: S280, 2019.
6. JJ Tan, WH Ng, R Ramasamy, **YK Yong**, SH Ngalim, V Lim, B Shahrudin. "Umbilical Cord-derived Mesenchymal Stem Cells Minimally Improve the Growth Kinetics of Aged Cardiac C-kit cells In Vitro". *International Journal of Cardiology*, 297: 27-28, 2019.

Books (If any)

-Nil-

Chapter in Books (If any)

-Nil-

Research Grants

Received 2020

1. From Traditional to 3D Virtual: To Assist Students Learning and Understanding Origin of the Heartbeat,

RM20,000.00, GIPP UPM **(PI)**

2. Unraveling the Potential of Malaysian Tualang Honey in Combating Pathogenesis of Atherosclerosis initiated by Vascular Smooth Muscle Cells: the mechanisms in vitro and in vivo, RM159,000.00, FRGS KPM **(PI)**

On-going

1. Investigating the anti-angiogenic property of Astaxanthin isolated from *Haematococcus pluvialis*, RM 20,000.00, 2017, GP-IPS, UPM **(PI)**

2. Characterization and molecular mechanism of silver nanoparticle-B-sitosterols in enhancing antiproliferative effects against oral cancer cell lines for cancer therapy, RM 80,200.00, 2017, FRGS (Member)

3. Malaysian Kelulut Honey: Investigating the potential nourishment for healthy bone and its mechanism of action, RM 94,000.00, 2017, FRGS (Member)

4. Immunomodulatory and anti-inflammatory effects of Tualang and Kelulut honeys on activated microglial cells, RM 29,500.00, 2017, Taylor’s University Grant (Member)

5. Investigation of the effects of Asiatic acid on pre-lesional atherogenic events in vitro and atherosclerotic lesion formation in vivo, RM 177,200.00, 2018, FRGS (Member)

6. Solving the myth: does kelulut honey alleviate or exacerbate allergy, RM 105,200.00, 2018, FRGS (Member)

7. Linking Obesity to Cancer: An Integrative Study from Molecule to Society, RM 1,870,000.00, 2019, MRUN-LRGS (Member)

8. Investigating the molecular mechanisms linking BPA-induced obesity to cancer progression in rat models, RM 306,000.00, 2019, MRUN-LRGS **(Subproject leader)**

Research Grants				
No.	Project Title	Amount (RM)	Year	Source of Fund
1.	The Anti-Inflammatory Mechanism of Active Fraction Isolated from <i>Bixa Orellana</i> (Member)	15,000.00	2011	MTSF
2.	Anti-hyperpermeability effect of Malaysia Tualang Honey against oxidant-induced increased vascular permeability (PI)	147,000.00	2013	FRGS
3.	Possible endothelial barrier protection effect by <i>Stachytarpheta jamicensis</i> (L.) vahl (PI)	50,000.00	2014	GP-IPM
4.	Anti-proliferative properties of <i>Clinacanthus nutans</i> L. leaves extracts against oral cancer cell lines (Member)	39,000.00	2014	RAGS
5.	Effect of Tualang Honey on H ₂ O ₂ -induced microvascular complication (PI)	20,000.00	2015	GP-IPS
6.	Study on the effect of <i>Clinacanthus nutans</i> extract on chronic inflammation and angiogenesis in cancer progression (Member)	417,000.00	2015	NRGS
7.	Evaluation of the effects of <i>Centella asiatica</i> on atherogenic animal model in vivo, and its active constituents, Asiaticoside and Asiatic Acid, on pre-lesional atherogenesis in Human Aortic Endothelial Cells (HAEC) in-vitro (Member)	141,000.00	2015	FRGS
8.	Protective effect of <i>S. jamaicensis</i> (L) Vahl against LPS-induced vascular complication (PI)	20,000.00	2016	GP-IPS
9.	Investigating Malaysian Tualang Honey as	100,000.00	2016	FRGS



an anti-angiogenic agent: An emerging complementary regimen for cancer patients based on its superior anti-hyperpermeability effects **(PI)**

Awards/ Recognition (Current)				
No.	Name of awards	Award Authority	Award Type	Year
1.	Graduate Research Fellow Scholarship	UPM	University	2008
2.	Young Investigator Travel Award	International Union of Physiological Society	International	2009
3.	Silver Medal at PRPI (Pameran Rekacipta, Penyelidikan dan Inovasi)	UPM	University	2010
	Young Investigator Travel Award	Society for Medicinal Plant and Natural Product Research	International	2010
4.	Young Investigator Travel Award	The 1st International Conference on Pharma and Food, Japan	International	2012
5.	Young Investigator Travel Award	International Union of Physiological Society	International	2013
6.	Excellent Service Award 2014	UPM	University	2015
7.	Excellent Service Award 2015	UPM	University	2016
8.	Finalist Young Investigator Award	Malaysian Society for Pharmacology and Physiology	National	2016
9.	Young Investigator Travel Award	International Society for Hypertension	International	2016
10.	Excellent Service Award 2016	UPM	University	2017
11.	Excellent Service Award 2017	UPM	University	2018
12.	Excellent Service Award 2018	UPM	University	2019
13.	Young Investigator Travel Award	Federation of the Asian and Oceanian Physiological Societies	International	2019

Professional Services/ Consultation			
No.	Year	Title	Authority
1.	2014	Invited lecturer	Medic Mesir
2.	2015	Invited lecturer	Medic Mesir
3.	2016	Invited lecturer	Medic Mesir
4.	2017	Invited lecturer	Medic Mesir
5.	2018	Invited lecturer	Medic Mesir
6.	2018	Visiting lecturer	Xiamen University Malaysia Branch
7.	2019	Invited lecturer	Medic Mesir
8.	2020	Visiting lecturer	Xiamen University Malaysia Branch

Student Supervision			
PhD (Main Supervisor)			
No.	Name	Title	Status

1.	Nur Aqilah Binti Kamaruddin	Effect of omentin against tnf-alpha induced-endothelial permeability and its possible mechanisms	On-going
2.	Ahmed Rashid Abdulhameed	Investigating the molecular mechanisms linking BPA-induced obesity to cancer progression in rat models	On-going

Master with Thesis (Main Supervisor)			
No.	Name	Title	Status

1.	Pearl Majorie Liew	Anti-inflammatory activities in <i>Stachytarpheta jamaicensis</i> (L.) Vahl ethyl acetate leaf extract	Graduated
2	Kogilavane A/P Devasvaran	Anti-hyperpermeability effect of Malaysian Tualang honey on hydrogen peroxide-induced increased vascular permeability in the human endothelial cell	Graduated

Master without Thesis (Main Supervisor)			
No.	Name	Title	Status

Attended Seminars/ Workshops/ Forums both National and International			
No.	Year	Title	Organizers

1.	2009	Basic course of microscopy imaging solution	Olympus
2.	2009	Workshop on "Use of Powerlab in teaching and learning"	ADInstrument & Malaysia Society for Pharmacology and Physiology
3.	2009	36 th International Congress of Physiological Sciences, Japan 2009	International Union of Physiological Sciences
4.	2009	Seminar on laboratory safety	Faculty of Medicine and Health Sciences, UPM
5.	2010	58 th International congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research, Berlin	Society for Medicinal Plant and Natural Product Research
6.	2011	7 th Annual workshop on the "Teaching & research made easier – hands-on experience"	ADInstrument
7.	2012	5 th Scientific Meeting Asian Society for Vascular Biology, China	Asian Society for Vascular Biology
8.	2012	The 1 st International Conference on Pharma and Food, Japan	University of Shizuoka
9.	2013	37 th International Congress of Physiological Sciences, UK	International Union of Physiological Sciences
10.	2014	Bengkel "Objective structured clinical examination" (OSCE) Doktor Perubatan	Faculty of Medicine and Health Sciences, UPM
11.	2014	Workshop on constructing assessment questions: (SBAQ) Questions preparation	Faculty of Medicine and

			Health Sciences, UPM
12.	2014	8 th International Traditional and Complementary Medicine	Ministry of Health & Ministry of Agriculture Malaysia
13.	2015	3rd Refresher Course on Physiology & Pharmacology Teaching	Malaysia Society for Pharmacology and Physiology
14.	2015	Bengkel "Penyediaan Blueprint Peperiksaan Profesional I Program Doktor Perubatan	Faculty of Medicine and Health Sciences, UPM
15.	2015	14 th Problem based learning case design workshop	Faculty of Medicine and Health Sciences, UPM
16.	2015	8 th Congress Federation of the Asian and Oceanian Physiological Societies, Thailand	Federation of the Asian and Oceanian Physiological Societies
17.	2015	1 st International Anatomical and Biomedical Scientific Conference 2015	Department of Human Anatomy & Malaysia Anatomical Association
18.	2016	Bengkel Latihan Intensif Pensyarah Akademik	Faculty of Medicine and Health Sciences, UPM
19.	2016	Susulan Bengkel Latihan Intensif Pensyarah Akademik	Faculty of Medicine and Health Sciences, UPM
20.	2016	Bengkel MRUN	Universiti Malaya
21.	2016	Bengkel Perbincangan focus semakan kurikulum program doctor perubatan, bahagian praklinikal – Siri I	Faculty of Medicine and Health Sciences, UPM
22.	2016	Bengkel Perbincangan focus semakan kurikulum program doctor perubatan, bahagian praklinikal – Siri II	Faculty of Medicine and Health Sciences, UPM
23.	2016	HYPERTENSION SEOUL 2016	International Society for Hypertention
24.	2016	30 th Scientific Meeting of Malaysian Society of Pharmacology and Physiology	Malaysia Society for Pharmacology and Physiology
25.	2017	Prima Nexus Workshop Series 2017: ELISA Hands-On Workshop & Data Analysis	Department of Human Anatomy & Prima Nexus
26.	2017	Bengkel Pengurusan Geran dan Kewangan Penyelidikan	Faculty of Medicine and Health Sciences, UPM
27.	2017	9 th Malaysian Symposium of Biomedical Science	Department of Biomedical Science, UPM
28.	2017	2nd International Anatomical and Biomedical Scientific Conference	Department of Human Anatomy, UPM
29.	2018	Bengkel "Introduction on Multiplex and Gene Quantitation"	Department of Human Anatomy & Prima Nexus
30.	2018	Bengkel "Hands-On Workshop and Data Analysis" Siri I	Department of Human Anatomy & Prima Nexus
31.	2018	Bengkel "Hands-On Workshop and Data Analysis" Siri II	Department of Human Anatomy & Prima Nexus
32.	2018	Bengkel "Hands-On Workshop and Data Analysis" Siri III	Department of Human Anatomy & Prima Nexus
33.	2018	2-Days Fundamental Cell Culture and MTT Assay Demonstration Workshop	Department of Human Anatomy & Prima Nexus
34.	2018	BIOPAC system workshop in Polytech Singapore	BIOPAC Inc & Polytechnic Singapore



35.	2019	FAOPS 2019 & ADInstrument Teaching Workshop	ADInstrument
36.	2019	9 th Congress Federation of the Asian and Oceanian Physiological Societies, Japan	Federation of the Asian and Oceanian Physiological Societies

Intellectuals Property			
Patent Granted			
No.	Date	Patent No.	Name

-Nil_

Patent Field			
No.	Date	Patent No.	Name

-Nil-